

**APPENDIX**

**"Version Of Claims Under Consideration With Markings To Show Changes Made"**

36. An apparatus for electrical detection of molecular interactions between an immobilized oligonucleotide probe and a target nucleic acid molecule, said apparatus comprising a supporting substrate comprising:

- a) a plurality of microelectrodes each comprising a conjugated polymer film and a different immobilized oligonucleotide probe;
- b) a voltage source connected to said microelectrodes;
- c) an electrolyte solution comprising a solution of  $\text{Li}^+$  ions; and
- d) a detector connected to said microelectrodes.

37. An apparatus for electrical detection of molecular interactions between an immobilized oligonucleotide probe and a target nucleic acid molecule, said apparatus comprising a supporting substrate comprising:

- a) a plurality of microelectrodes each comprising a polymer gel pad and a different immobilized oligonucleotide probe;
- b) a voltage source connected to said microelectrodes;
- c) an electrolyte solution comprising a solution of  $\text{Li}^+$  ions; and
- d) a detector connected to said microelectrodes.

38. An apparatus according to claim 36 or 37 wherein said apparatus further comprises a counter-electrode.

39. An apparatus according to claim 36 or 37 wherein said apparatus further comprises a reference electrode.

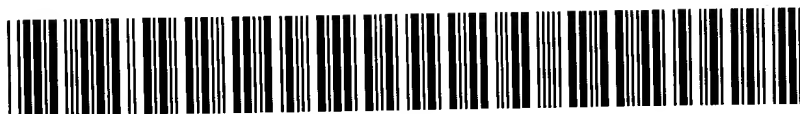
40. An apparatus according to claim 36 or 37 wherein said detector will detect changes in impedance at each microelectrode.

41. An apparatus according to claim 36 or 37 wherein said solution of  $\text{Li}^+$  ions comprises a solution of  $\text{LiClO}_4$ .

42. An apparatus according to claim 41 wherein said solution of  $\text{LiClO}_4$  is about 0.1 M.

43. An apparatus according to Claims 36 or 37 wherein the microelectrodes comprise a conductive material and an insulating material.

US 0945853306P1



Creation date: 13-02-2003  
Indexing Officer: YGEZAHEGN - YONATHAN GEZAHEGN  
Team: CENTRALSCANPRINT  
Dossier: 09458533

Legal Date: 27-12-1999

No.	Doccode	Number of pages
1	CRFE	2

Total number of pages: 2

Remarks:

Order of re-scan issued on .....